REMARKS

Claims 33 and 34 have been rejected under 35 U.S.C. §112, first paragraph, for allegedly failing to comply with the written description requirement. In particular, paragraph 3 of the Office Action states that the disclosure does not adequately describe the limitations of Claim 33 pertaining to embedding a predetermined acoustic signal within a sound track which is transmitted to an entertainment device, where the entertainment device is a cinema system.

In response to this ground of rejection, Applicants have amended Claim 33 such that the step of transmitting the sound track to the entertainment device has been eliminated. The claim now recites simply that the entertainment device emits the predetermined acoustic signal in audible form. Applicants respectfully submit that Claim 33 as amended is thus clearly and fully supported by an adequate disclosure, including the portions of paragraphs 10 and 11 referred to at page 12 of the amendment submitted March 16, 2004. In particular, the process by which sound track signals are emitted by radio, television and cinema devices are known to those skilled in the art, as is the process by which a predetermined information can be incorporated into such a signal. Since radio, television and cinema are well known entertainment devices, and since Claim 33 specifically recites that the entertainment device comprises

one of these three modes, the recitation of the generic term "entertainment

device" is believed to be proper.

Claims 21, 23, 25 and 27-34 have been rejected under 35 U.S.C. §102(b) as

anticipated by Tognazzini (U.S. Patent No. 5,708,478), while Claims 22, 24 and

26 have been rejected under 35 U.S.C. §103(a) as unpatentable over Tognazzini

in view of Robbins et al (U.S. Patent No. 6,147,713) and Crossland et al (GB 2

149 554). However, for the reasons set forth hereinafter, Applicants respectfully

submit that all claims which remain of record in this application distinguish over

the cited references, whether considered separately or in combination.

The present invention is directed to an acoustically activated device which

can be worn by an individual, and which displays predetermined message

information in response to the recite of predetermined acoustic signals. If

particular, the device according to the invention may be worn by a consumer as a

badge, while at the cinema, or while listening to the radio or TV, as described at

paragraph [0003] of the specification. When the acoustic information detected by

the device detects the receipt of predefined data, it activates the device to display

predefined information.

The present invention as claimed responds to a predefined acoustically

propagated signal (that is, a sequence of pressure waves transmitted in the air).

and displays predetermined information in response to such predefined

acoustically propagated signal. Thus, for example, Claim 1 recites an apparatus

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for displaying information which includes display means and activation means

coupled to the display means for causing the display means to display defined

information upon reception of predefined acoustically propagated data broadcast

by a commercial broadcast source, with the commercial broadcast source being a

commercial radio broadcaster or a commercial television broadcaster. Claim 32

recites in somewhat greater detail that the apparatus includes means for

receiving an acoustically propagated signal derived from commercially broadcast

information and the means for comparing the content of the acoustically

propagated signal with a stored predefined signal content. Upon detection of a

match between the acoustically propagated signal and a predefined signal

content, a predetermined information signal is output, either visually or audibly.

Claim 33, on the other hand is a method claim which recites steps of

embedding a predetermined acoustic signal within a sound track that is to be

emitted by an entertainment device. The acoustic signal, emitted by the

entertainment device is compared with a predefined signal and predefined

information is displayed upon detection of a match between the acoustic signal

and a predefined signal.

Finally, new Claim 35 recites a method of displaying information which

includes the steps of a person wearing a badge which is capable of detecting

input acoustic information and displaying visual indications. Upon

determination by a processor contained in the badge that predefined acoustic

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information has been received, a predetermined visual indicator associated with

a predefined acoustic information as displayed.

The latter features of the invention are neither taught nor suggested by

any of the cited references.

Tognazzini discloses a system which receives and responds to electrical

signals representing radio or TV transmissions. This reference does not,

however, describe a system in which a sound track is converted into an

acoustically propagated signal, and wherein a device responds to a predefined

acoustically propagated signal (that is, a sequence of pressure waves transmitted

in the air) and generates a predetermined information signal. Accordingly,

Tognazzini does not include "activation means" for causing a display unit to

display predefined information upon reception of predefined acoustically

propagated data broadcast by a commercial broadcast source". Rather,

Tognazzini merely extracts and stores commercials contained in radio or TV

signals, which a user can retrieve and display by actuating buttons 23-26.

Accordingly, this reference also fails to teach or suggest a system in which

activation means causes a display means to display predefined information in

response to reception of predefined acoustically propagated data. Rather, as

noted, the electronically transmitted data are simply stored for display at the

request of the operator.

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The Office Action refers to Figure 6 of Tognazzini for evidence of the

disclosure of reception of acoustically propagated signals. However, Figure 6

shows a flow chart of operations performed within a computer for extracting data

(not being predetermined data in the sense that it is already known by the

receiving device) from decoded AM/FM or TV signals. As these processes operate

within the computer, the data treatment will be performed on electrical signals

resulting from decoding of the AM/FM or TV signals. No acoustically propagated

signals are generated or detected in the system represented by Figure 6 of

Tognazzini. In this regard, Applicants refer to Figure 4 of Tognazzini, which

clearly shows all operations from communications port to display device taking

place internally within the computer. Column 5, lines 45-67 of Tognazzini also

requires operation to be upon electrical AM/FM or TV signals, since super or

supra audible frequencies, or TV vertical retrace signals may be used. Such

signals are not acoustically propagated as required by the claims of the present

invention.

With regard to Claims 22, 24 and 26, the Office Action cites the Robbins et

al and Crossland et al references, noting that Tognazzini fails to disclose having

an analog to digital converter including specific integrated circuit in a

programmable digital processor. While the latter is of course true, it is

important to note that there would be no particular utility in providing an analog

to digital converter in the Tognazzini apparatus, nor would such a modification

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of Tognazzini result in the invention as defined in the claims, for the reason set

forth above.

That a display device of some sort may be connected to an A/D converter

for some reason, or may include a specific integrated circuit or a programmable

digital processor is not, of course, in dispute, and is shown by Robbins et al.

Similarly, the fact that a display may be an LCD, or may include a battery, is

also disclosed by Crossland et al. The embodiments of Crossland et al shown in

Figures 6 and 7 will of course, include a microphone. Those embodiments are

telephones. The embodiment of Figure 9 is a pager, and is not likely to include a

microphone. The fact that a telephone includes a microphone does not provide a

basis, however, for rejecting the claims of the present application, for the reasons

noted previously. That is, the microphone in Crossland et al is not used to cause

a device to respond to predefined acoustically propagated data in order to trigger

the display of predefined information, nor does anything in Crossland et al

suggest such an apparatus.

To summarize, none of the features contained in Robbins et al or

Crossland et al, when combined with Tognazzini, would suggest the feature of

the present invention that the claimed device responds to a predefined

acoustically propagated signal (a sequence of pressure waves transmitted in the

air), to trigger the display of predefined messages or information. Nor is there

any particular utility in such a combination, as the device in Tognazzini, as

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noted previously, merely extracts and stores commercials and the information

contained therein for subsequent display to an operator of the system.

In light of the foregoing remarks, this application should be in condition

for allowance, and early passage of this case to issue is respectfully requested. If

there are any questions regarding this amendment or the application in general,

a telephone call to the undersigned would be appreciated since this should

expedite the prosecution of the application for all concerned.

If necessary to effect a timely response, this paper should be considered as

a petition for an Extension of Time sufficient to effect a timely response, and

please charge any deficiency in fees or credit any overpayments to Deposit

Account No. 05-1323 (Docket #3036/49686).

Respectfully submitted,

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